IN THE CLAIMS

1. (previously presented) Tie rod with application of polymer composite with fiber reinforcement, comprising a stem provided at its ends with ball joints each composed of a metallic ball joint box, a bearing, a protection cover and a ball pin, said tie rod having the function of fixing pieces and components of a mechanical system between themselves, providing to them angular and rotational movement, supporting the strains concentrated therein, wherein the stem of the tie rod is made of material comprising a polymer composite with fiber reinforcements, and combined with components of the metallic ball joint box.

2. (currently amended) Tie rod with application of polymer composite with fiber reinforcement, according to claim 1, wherein the ball joints are attached to the ends of the stem by chemical fixing that, due to the process of application, cure and drying, assures the resistance required to the objective to which the ball joints are intended, making the tie rod a tie rod with fixed length.

3. (previously presented) Tie rod with application of polymer composite with fiber reinforcement, according to claim 1, wherein the ball joints are attached to the ends of the stem by means of a thread on the body of the stem and in the ball joints' boxes, making the tie rod a tie rod with variable length, the adjustment of its length and the locking of the tie rod being provided by nuts provided on the threads of the stem and that are tightened against the boxes of the ball joints.